

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2006/002721

A. CLASSIFICATION OF SUBJECT MATTER
INV. C07D231/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004/028450 A (ARENA PHARMACEUTICALS, INC; HORNS, STEFAN; RAY, MAX; TEEGARDEN, BRADLE) 8 April 2004 (2004-04-08) cited in the application the whole document -----	1-55
A	WO 03/062206 A (ARENA PHARMACEUTICALS, INC; TEEGARDEN, BRADLEY; DROUET, KEITH; JAYAKUM) 31 July 2003 (2003-07-31) the whole document -----	1-55
A	WO 2004/058722 A (ARENA PHARM INC [US]; TEEGARDEN BRADLEY [US]; JAYAKUMAR HONNAPPA [US];) 15 July 2004 (2004-07-15) the whole document ----- -/--	1-55

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

5 February 2007

Date of mailing of the international search report

20/02/2007

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Fink, Dieter

INTERNATIONAL SEARCH REPORT

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PCT/US2006/002721

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 2005/103011 A (ARENA PHARMACEUTICALS, INC; FRITCH, JOHN ROBERT; CARLETON, FIONA M; LA) 3 November 2005 (2005-11-03) the whole document -----	1-55
P, A	WO 2005/012254 A (ARENA PHARMACEUTICALS, INC; TEEGARDEN, BRADLEY; JAYAKUMAR, HONNAPPA; L) 10 February 2005 (2005-02-10) the whole document -----	1-55

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-33

the process for the preparation of the urea compounds of the present general formula (I);

2. claims: 34-55

the processes for the preparation of the amine compounds of the present general formulae (II) and (IV);

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2004028450 A	08-04-2004	AU 2003275093 A1	19-04-2004
WO 03062206 A	31-07-2003	EP 1509505 A2	02-03-2005
WO 2004058722 A	15-07-2004	AU 2003297441 A1	22-07-2004
WO 2005103011 A	03-11-2005	CA 2559038 A1	03-11-2005
		EP 1727803 A1	06-12-2006
WO 2005012254 A	10-02-2005	AT 313532 T	15-01-2006
		AU 2004261582 A1	10-02-2005
		BR PI0412263 A	19-09-2006
		CA 2533369 A1	10-02-2005
		DE 602004000260 T2	24-08-2006
		DK 1558582 T3	08-05-2006
		EP 1558582 A1	03-08-2005
		ES 2258760 T3	01-09-2006
		HK 1072943 A1	10-03-2006
		JP 2006528195 T	14-12-2006
		KR 20060041260 A	11-05-2006
		MX PA06000795 A	23-08-2006
		PT 1558582 T	31-05-2006